Filter Candle Guide 2019

Caring for your Filter Candles and Elements

Maximise the efficiency of your Filter and prolong the life of your Candles and Elements with careful handling and cleaning

Great Filters by Great People. Great People buy Great Filters
The Filter Candle Care Team

Caring for your Filter Candles and Elements
Introduction to Candle Care and Identifying Essential Information

Meet the UK & Ireland Spare Parts Team

Meet the UK & Ireland Service Team

Types of Filter Elements

Candle Elements for Automatic Filters

Basket Element

Ring Filter Element

Multimantle Element

Star Pleated Element

Disposable Elements

Particle / Coalescence Element

Filter Candle Element

Filter Element and Candle Marking

Identifying Filter Mesh Type on Filter Candles

Spare Parts available

Correct Handling and Tools Needed

The Boll 5.04 Cleaning Unit

The Boll 5.05 Ultrasonic Cleaning Unit for HFO Heavy Fuel Oil
If handled and cleaned correctly, Bollfilter candles have a long trouble-free life. To help engineering and maintenance staff take care of their Bollfilters correctly, we’ve prepared this simple booklet, which covers how to identify spare parts and clean the filter candles.

**Identifying Essential Information**

To help us help you get the correct information quickly. It is essential we can identify the filter. Providing us with the information below will help ensure a speedy response with the right parts or information.
Janine Harris is the Spare Parts Manager. She joined Bollfilter in 1994 as an office junior before ultimately taking up the role of heading the Spares Department team in 2004. As well as overseeing all aspects of running the Spares Department, she specialises in technical spares enquiries and contract proposals.

**Contact:**
01621 862183 janine@bollfilter.co.uk

Laura Morgan works in the Spares department as Spare Parts Administrator. Laura has worked for Bollfilter since 2007 and is responsible for sending quotations to customers for spare parts, processes orders and organises deliveries.

**Contact:**
01621 862184 laura@bollfilter.co.uk

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**Quotes 01621 862180  spares3@bollfilter.co.uk**
6  Meet the Service Team

Michael Chadwick is the Service Manager and has been with the company since November 2004. He is the main contact for service enquiries, quotations and technical information. He organises his team with planned service work across a variety of industries worldwide that include shipping, steel works and water treatment sites.

Contact:
01621 862187 michael@bollfilter.co.uk

Liam Fitzpatrick is the Senior Service Engineer and has been with the company since July 2009. He carries out planned service work in numerous industry fields worldwide; these include shipping, steel works and water treatment sites.

Contact:
01621 731994 liam@bollfilter.co.uk

Alex Wood joined the Bollfilter UK team in September 2013. Alex started with a six month service engineer training period where he undertook both on the job training and official training at our head office in Germany. He is now fully trained and attends service work all over the world.

Contact:
01621 731991 alex@bollfilter.co.uk
Basket element (1) The basket element is suitable for coarse filtration or for minor contamination. The dirt collects in a basket-shaped filter insert and can be easily removed for cleaning.

Ring filter element (2) The ring filter element is similarly constructed to the basket element, but has an additional concentric mesh cylinder, increasing the filter area by about 30%.

Multi-mantle element (3) The multi-mantle element insert consists of several cylindrical filter mantles. These provide a large filter surface for only a small space requirement and permits the employment of fine-meshed cloths. Filtration takes place from the outside in.

Star-pleated element (4) The star-pleated element has a large filter surface yet a small diameter due to the pleating of the filter element. This makes long cleaning intervals possible and the use of fine meshes with low pressure losses.

Filter candle insert (5) This insert contains several mesh candle elements of the same size and mesh connected in parallel. This gives a large filter surface with a very compact design. The filter candles are outstanding for their particularly high resistance to differential pressure.

Filter candle insert for backflushing filters (6) As in the ordinary filter candle insert, several filter candles are screwed into a single candle holder. The holder is fixed to the filter housing and remains there during backflushing in the filter chamber.

Filter cartridge (7) The filter cartridge consists of non-woven pleated plastic, glass fibre or paper element. It is capable of filtering very fine dirt particles.
The filter element is the main component of every filter. It essentially consists of a supporting body and the filter media which is fitted into it. Various designs provide differing sized filtration surfaces. The required degree of filtration and cleaning can be achieved for every medium with the ideal combination of core components.
Basket element

The basket element is suitable for coarse filtration or for minor contamination. The dirt collects in a basket-shaped filter insert and can be easily removed for cleaning.
Ring filter element

The ring filter element is similarly constructed to the basket element, but has an additional concentric mesh cylinder, increasing the filter area by about 30%.
Multi-mantle element

The multi-mantle element insert consists of several cylindrical filter mantles. These provide a large filter surface for only a small space requirement and permits the employment of fine-meshed cloths. Filtration takes place from the outside in.
Star-pleated element

The star-pleated element has a large filter surface yet a small diameter due to the pleating of the filter element. This makes long cleaning intervals possible and the use of fine meshes with low pressure losses.

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Disposable elements

The filter cartridge consists of non-woven pleated plastic, glass fibre or paper element. It is capable of filtering very fine dirt particles.
Particle / coalescence element

The high-quality, extremely durable particle and coalescence elements are used for gas filtration and coalescence separation in chemical, petrochemical plant, the offshore sector and power stations.

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Filter candle element

This insert contains several mesh candle elements of the same size and mesh connected in parallel. This gives a large filter surface with a very compact design. The filter candles are outstanding for their particularly high resistance to differential pressure.

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16 Filter Element Marking

BOLLFILTER Paper Cartridge Features and Markings

BOLLFILTER Candle Features and Markings

BOLL Trademark

Spring Loaded Candle markings

Each element of a BOLLFILTER is marked with the BOLL trademark

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BOLLFILTER Elements / Marking

A 6-digit code number stamped on the element along with the BOLL trademark guarantee 100% ‘Bollfilter Genuine Parts’ quality.

First 4 digits: month and year of manufacture. The last 2 digits are the code number of the filter mesh.

Stamping “15” means mesh 208/26: 0.048mm mesh size.
Identifying Filter Mesh Type on Filter Candles

6-digit code number stamped on the element along with the BOLL trademark guarantee 100% ‘Bollfilter Genuine Parts’ quality.

First 4 digits: month and year of manufacture. The last 2 digits are the code number of the filter mesh.

Stamping “19” means mesh 294/31: 0.034mm mesh size.

BOLLFILTER Multi mantle Element markings
Available as complete unit or individual parts
2200 Control Panel

The 2200 Bollfilter Control Panel replaced the 2100.

For further details on this new model, please contact us on the phone number or email address below.

Telephone: 01621 862180
email: spares3@bollfilter.co.uk

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Differential Pressure Indicator (DPI) opened up to show the component parts

Filter outlet
“clean side”

Filter inlet
“dirty side”
22   Genuine replacement paper filters

Disposable Cartridges

P451 Filters

5PS50 Filters

Bollfilter UK Filter Candle Guide
Bollfilter UK ‘O’ ring and Gasket selection

O ring set

Vent set seals

Diaphragm for DPI

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The Essential Toolkit

Candle Removal Key

Motor Hand Crank

Control Panel Key

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To properly clean your elements use this system

To efficiently regenerate filter elements that have become ingrained with contaminants, and secure full functionality, it is recommended to manually clean the filter mesh from time to time.

Optimum results are achieved by using the BOLL high-pressure cleaning unit type 5.04 in combination with the special cleaning fluid BOLLCLEAN 2000. The unit is suitable for both the cleaning of individual filter elements and for complete filter inserts. Moreover, it can be used for the cleaning of other small parts.

Left Lance 5.02
For most general cleaning applications

Right Lance 5.01
With rotary nozzle, particularly suitable for cleaning screw-in and plug-in candles with heavy contamination

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Cleaning of Filter Elements

Boll & Kirch Cleaning Lances

Using the Boll and Kirch cleaning lances in combination with a high pressure water jet gives the best results in cleaning efficiency.
Ultrasonic cleaning is the simple, clean and effective method

Fine cleaning method for contaminated filter elements with sieve meshes. Highly energetic liquid jets remove virtually all ingrained dirt particles from the mesh of the filter screen. Ultrasonic cleaning is the simple, clean and effective method to restore filter meshes to their original filtration level, open condition.

The cleaning process is easy and trouble free. Ultrasonic waves emitted from two sides remove the dirt particles from the mesh of the filter screen. The removed contamination falls out of the lower, open end of the filter element.

VERSATILE, ROBUST AND EASY TO MAINTAIN

Two different frequencies are available, one for a primary cleaning (25 kHz) and one for a gentle fine cleaning (45 kHz). A programmable sweep function uses permanent acoustic modulation to ensure even distribution of energy to deliver consistent cleaning results.

Due to its construction and functionality the filter element cleaning unit can be used under various operating conditions, is easily maintained and because of its robust stainless steel structure it withstands even intensive usage.

REDUCE COSTS, SAVE THE ENVIRONMENT

The unit is designed to facilitate stable fastening on board ship, even in rough sea. The bevelled tank bottom allows for quick and complete draining of the spent fluid. The entire control unit is placed in a compact module. For reasons of maintenance it can be replaced quickly and without special knowledge.

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Cleaning Unit BOLL Ultrasonic TYPE 5.05

Modern BOLLFILTER 5.05 Unit with many updated features for 2016

Above left Heating goes on
Right Ultrasonic then goes on

Left
Dirty Candle

Right
Cleaning in action

Bollfilter UK Filter Candle Guide
Candles from BOLL 6.46 Lube Oil Filter encrusted with Oil sludge before cleaning

Candles after 8 hours cleaning, the Oil sludge has now gone